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FIG. 1

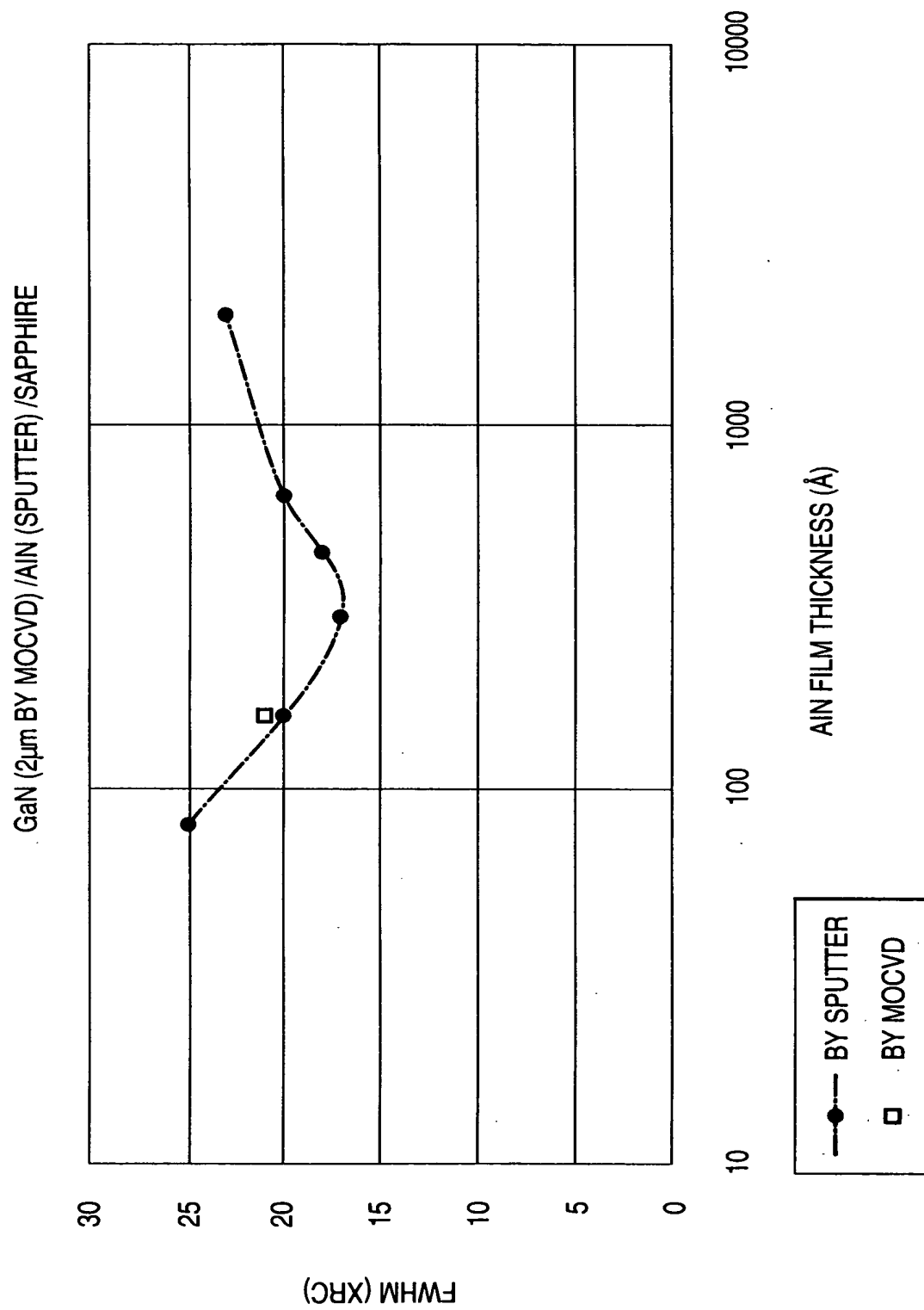


FIG. 2

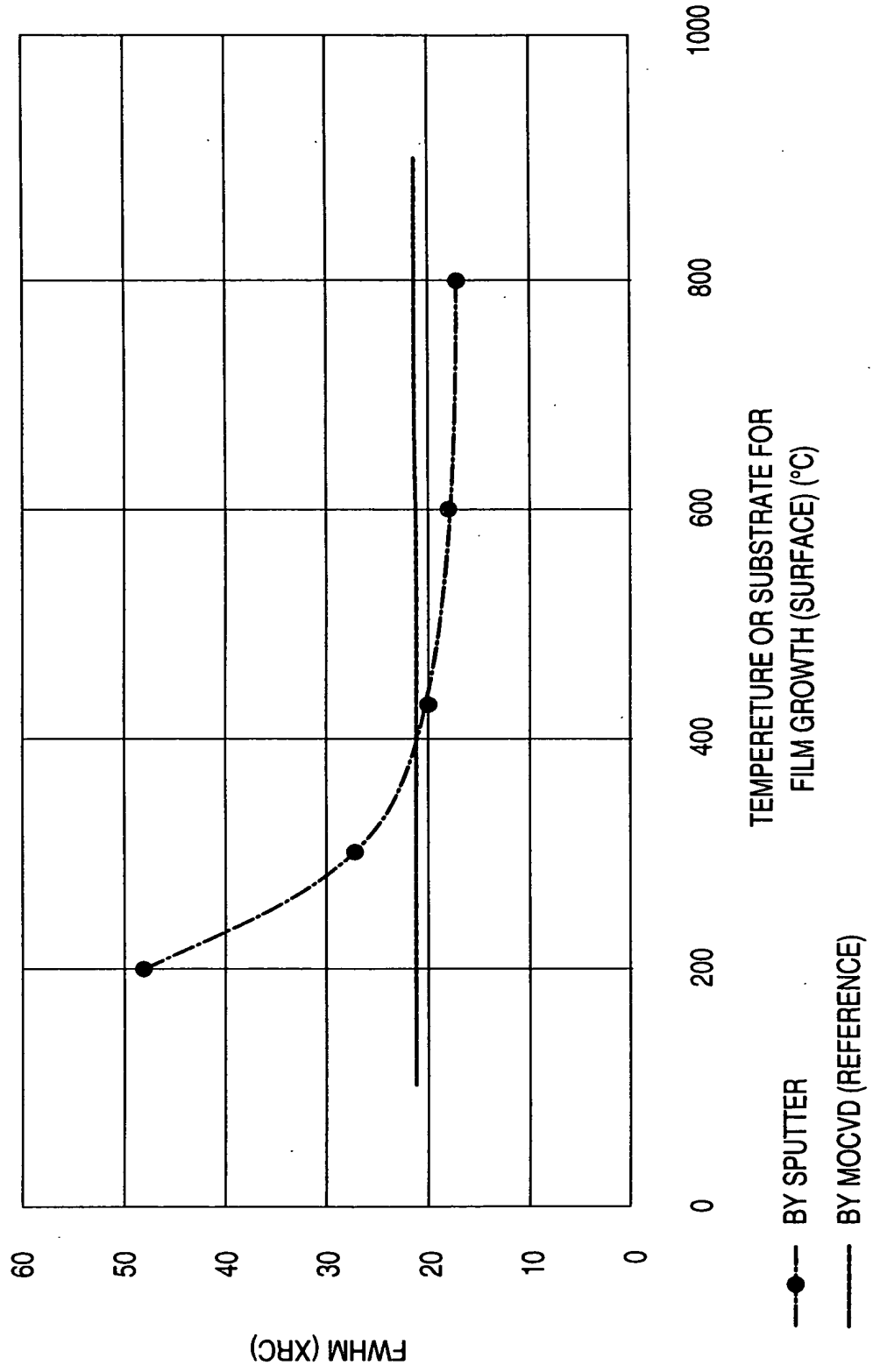
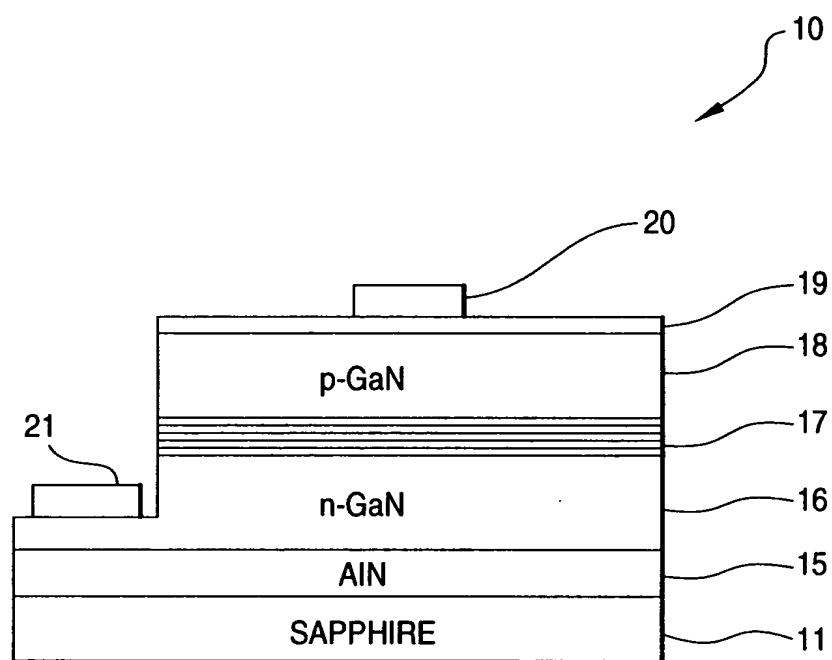
GaN (2 μ m BY MOCVD) / AlN (SPUTTER) / SAPPHIRE

FIG. 3



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FIG. 4

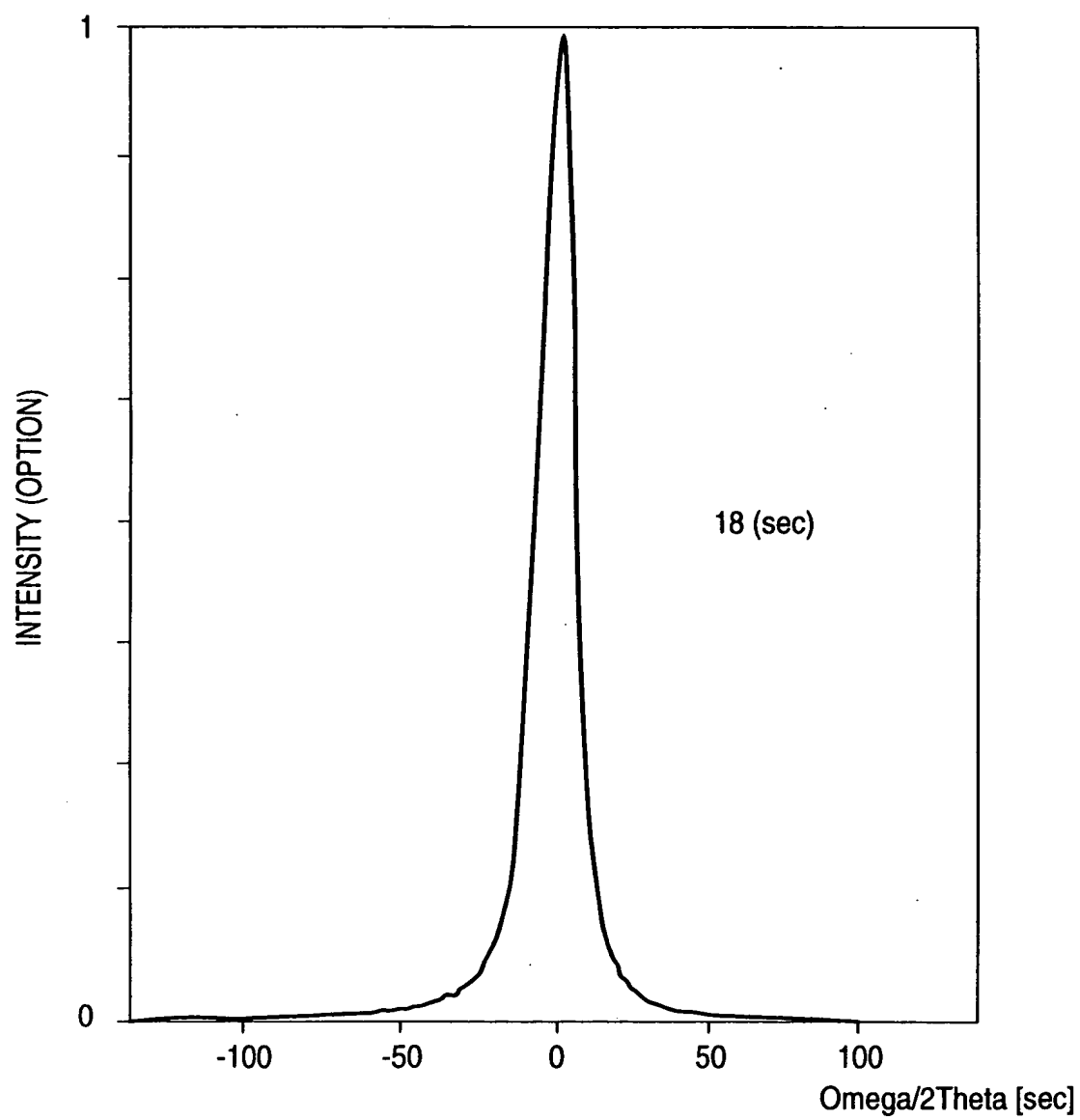


FIG. 5

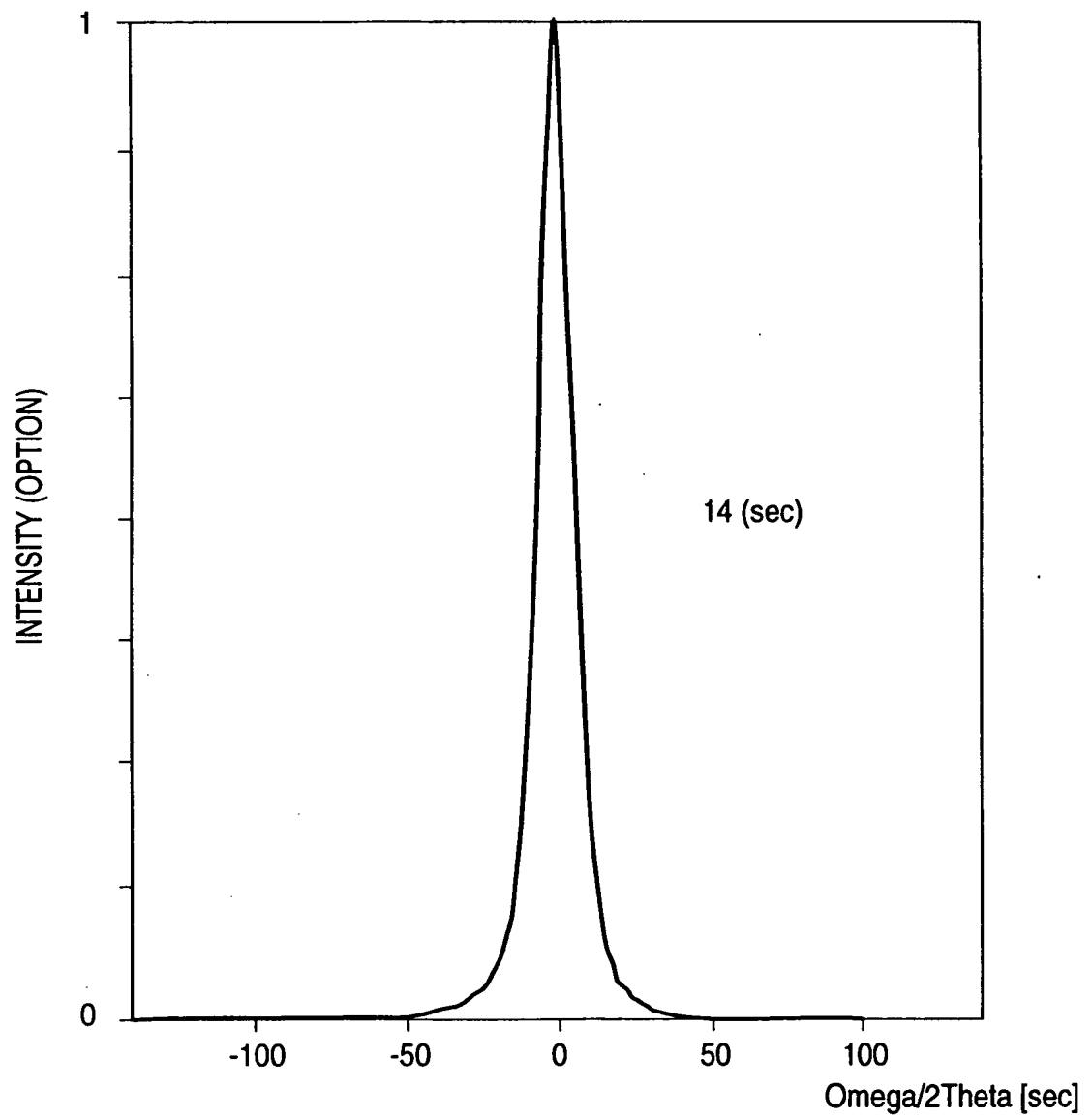


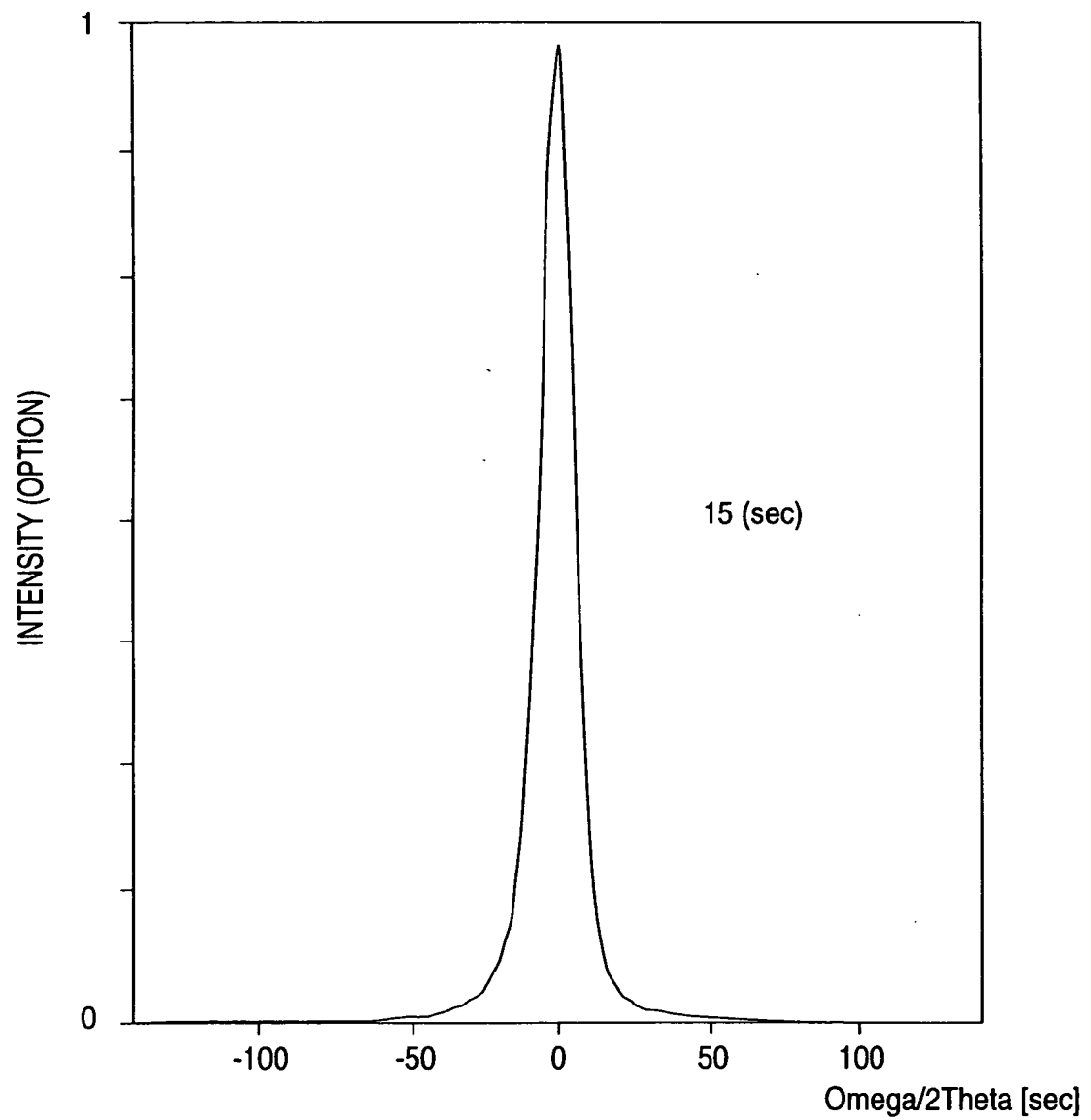
FIG. 6

FIG. 10

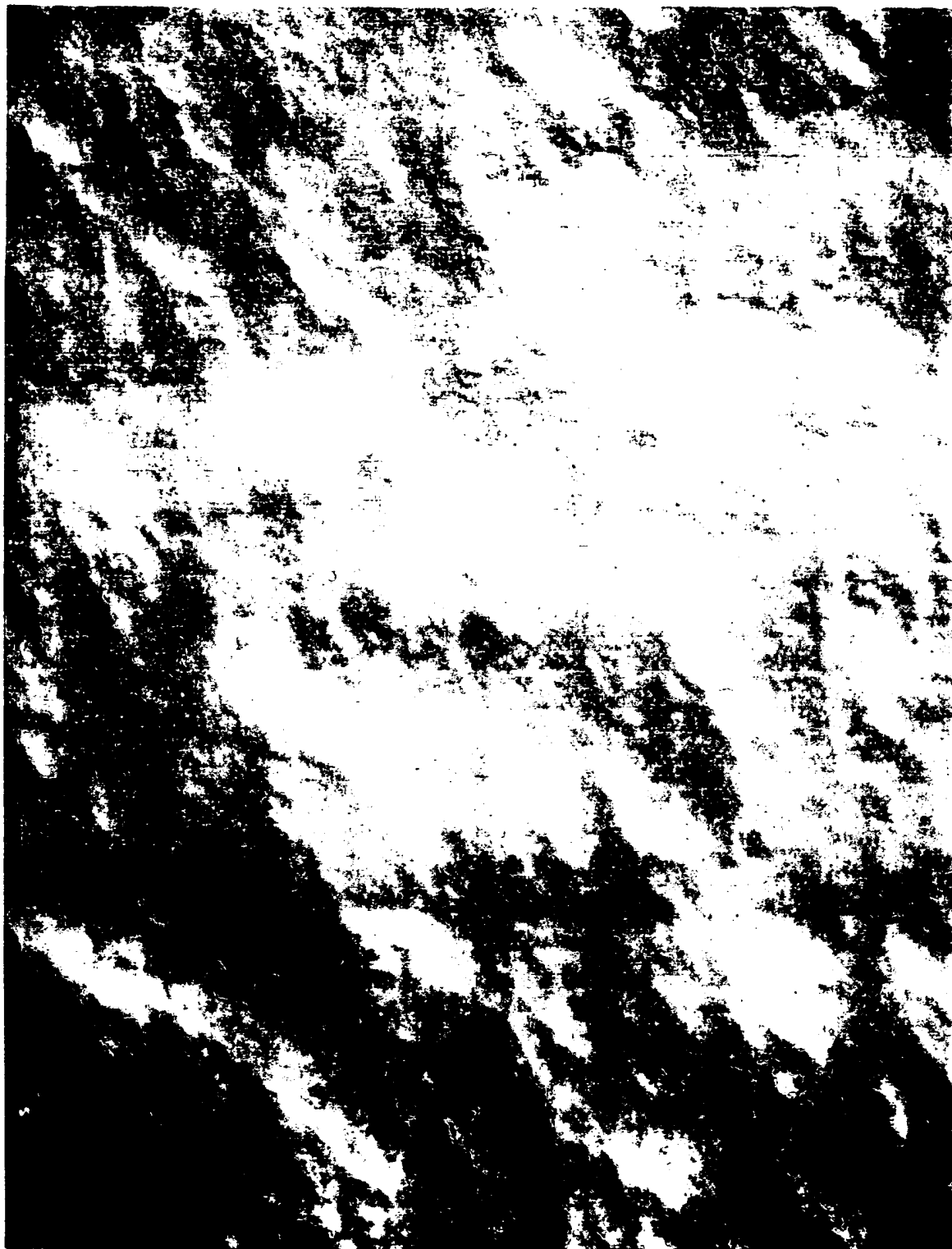


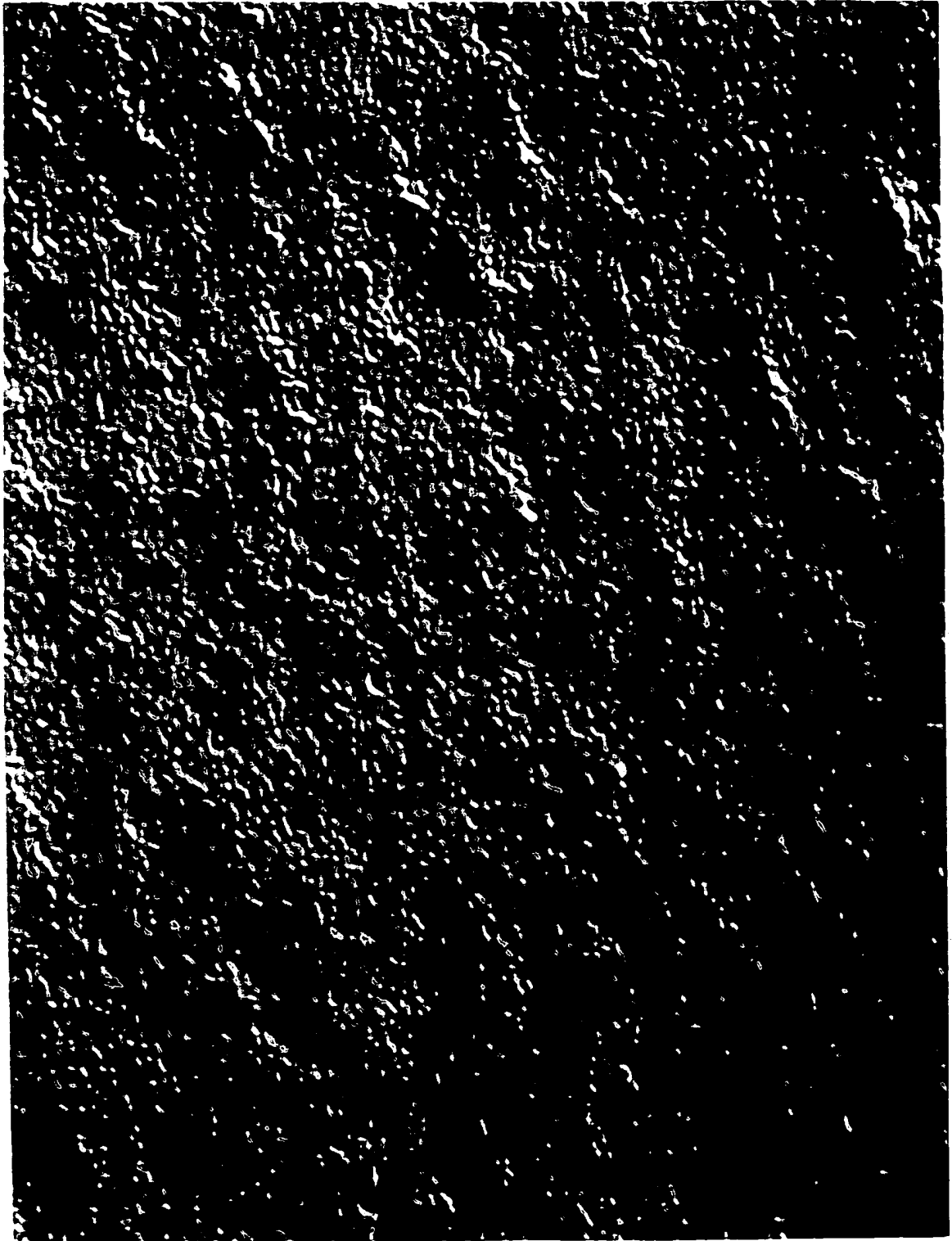
FIG. 9



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FIG. 8



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FIG. 7D

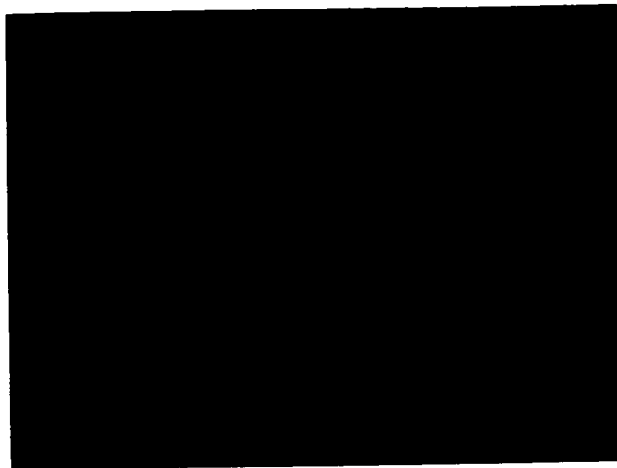


FIG. 7E

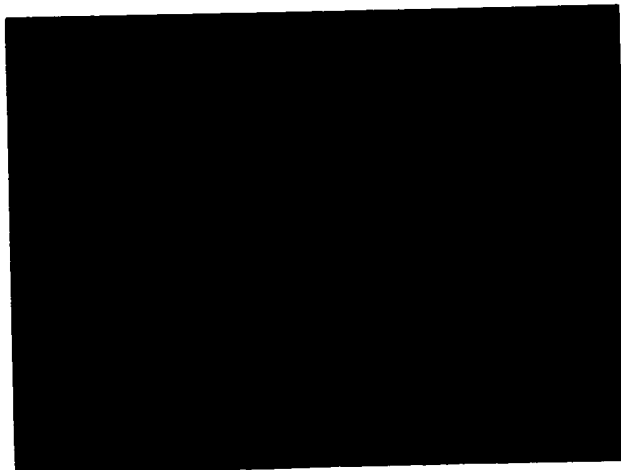


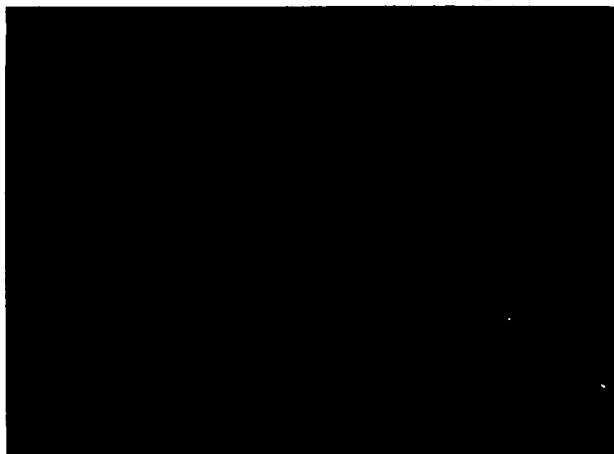
FIG. 7A



FIG. 7B



FIG. 7C



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FIG. 11

